



Water-Data Report 2008

403300074202901 Local number 231491- MW134A

Early Mesozoic basin aquifers
Passaic Formation

Middlesex County, NJ

LOCATION.--Lat 40°33'00.3", long 74°20'29.4" referenced to North American Datum of 1983, Edison Township, Middlesex County, NJ, Hydrologic Unit 02030104.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 34.2 ft. Upper casing diameter 2 in; top of first opening 24.2 ft, bottom of last opening 34.2 ft.

DATUM.--Land-surface datum is 92 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF DAILY RECORD.--Water year 2008.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 7. Urban Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the New Jersey Department of Environmental Protection.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Time | Depth to water level, feet below LSD (72019) | Flow rate, instantaneous gal/min (00059) | Pump or flow period to sampling, minutes (72004) | Turbidity white light, 90+/-30 corrctd NTRU (63676) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unf 25 degC (00095) | Temperature, water, deg C (00010) | Hardness, water, mg/L as CaCO3 (00900) | Calcium water, fltrd, mg/L (00915) |
|-----------|------|--|--|--|---|------------------------------------|--------------------------------|---|---|---|-----------------------------------|--|------------------------------------|
| Jul 21... | 1225 | .15 | .13 | 60 | 7.6 | 755 | 4.2 | 46 | 7.3 | 538 | 19.4 | 240 | 75.1 |

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Magnesium, water, fltrd, mg/L (00925) | Potassium, water, fltrd, mg/L (00935) | Sodium, water, fltrd, mg/L (00930) | ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410) | Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086) | Bicarbonate, wat flt infl pt titr., field, mg/L (00453) | Chloride, water, fltrd, mg/L (00940) | Fluoride, water, fltrd, mg/L (00950) | Silica, water, fltrd, mg/L as SiO2 (00955) | Sulfate, water, fltrd, mg/L (00945) | Residue water, fltrd, sum of constituents, mg/L (70301) | Residue on evap. at 180degC, wat flt mg/L (70300) | Ammonia + org-N, water, fltrd, mg/L as N (00623) |
|-----------|---------------------------------------|---------------------------------------|------------------------------------|---|--|---|--------------------------------------|--------------------------------------|--|-------------------------------------|---|---|--|
| Jul 21... | 12.8 | 1.62 | 12.9 | 202 | 198 | 241 | 25.0 | .14 | 24.6 | 26.6 | E313 | 327 | <.14 |

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Ammonia | Nitrate + | Nitrite | Ortho-phosphate, | Organic | Alum- | Anti- | Arsenic | Barium, | Beryll- | Boron, | Cadmium | Chrom- |
|--------------|---|--|---|---|--|--|--|-------------------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|---|
| | water, fltrd, mg/L as N (00608) | water fltrd, mg/L as N (00631) | water, fltrd, mg/L as N (00613) | water, fltrd, mg/L as P (00671) | carbon, water, fltrd, mg/L (00681) | inum, water, fltrd, µg/L (01106) | mony, water, fltrd, µg/L (01095) | water, fltrd, µg/L (01000) | water, fltrd, µg/L (01005) | ium, water, fltrd, µg/L (01010) | water, fltrd, µg/L (01020) | water, fltrd, µg/L (01025) | ium, water, fltrd, µg/L (01030) |
| Jul 21... | <.020 | 3.38 | .007 | .073 | 1.5 | E.9 | <.14 | .52 | 215 | <.01 | 34 | <.04 | 1.8 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Copper, | Iron, | Lead, | Mangan- | Mercury | Nickel, | Selen- | Silver, | Thall- | Zinc, | 1-Naph- | 2,6-Di- | 2Chloro |
|--------------|-------------------------------------|-------------------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--|
| | water, fltrd, µg/L (01040) | water, fltrd, µg/L (01046) | water, fltrd, µg/L (01049) | ese, water, fltrd, µg/L (01056) | water, fltrd, µg/L (71890) | water, fltrd, µg/L (01065) | water, fltrd, µg/L (01145) | water, fltrd, µg/L (01075) | water, fltrd, µg/L (01057) | water, fltrd, µg/L (01090) | thol, water, fltrd 0.7u GF (49295) | ethyl- aniline water, fltrd 0.7u GF (82660) | -2',6'- diethyl acet- anilide wat flt µg/L (61618) |
| Jul 21... | <1.0 | 23 | <.08 | 7.1 | <.010 | 3.7 | .42 | <.1 | <.04 | <1.8 | <.04 | <.006 | <.010 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | CIAT, | 2-Ethyl | 3,4-Di- | 3,5-Di- | 4- | Aceto- | Ala- | alpha- | Atra- | Azin- | Azin- | Ben- | Car- |
|--------------|-------------------------------------|---|---|---|--|---|---|--|--|---|---|---|---|
| | water, fltrd, µg/L (04040) | 6-methyl- aniline water, fltrd, µg/L (61620) | chloro- aniline water, fltrd, µg/L (61625) | chloro- aniline water, fltrd, µg/L (61627) | Chloro- 2methyl phenol, water, fltrd, µg/L (61633) | chlor, water, fltrd, µg/L (49260) | chlor, water, fltrd, µg/L (46342) | sulfan, water, fltrd, µg/L (34362) | zine, water, fltrd, µg/L (39632) | phos- methyl oxon, water, fltrd, µg/L (61635) | phos- methyl, water, fltrd 0.7u GF (82686) | flur- alin, water, fltrd 0.7u GF (82673) | baryl, water, fltrd 0.7u GF (82680) |
| Jul 21... | <.014 | <.010 | <.006 | <.008 | <.005 | <.006 | <.006 | <.006 | <.007 | <.04 | <.120 | <.010 | <.060 |

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Carbo- furan, water, fltrd 0.7u GF µg/L (82674) | Chlor- pyrifos water, fltrd, µg/L (61636) | Chlor- pyrifos water, fltrd, µg/L (38933) | cis- Per- methrin water fltrd 0.7u GF µg/L (82687) | cis- Propi- conazole, water, fltrd, µg/L (79846) | Cyana- zine, water, fltrd, µg/L (04041) | Cyflu- thrin, water, fltrd, µg/L (61585) | lambda- Cyhalo- thrin, water, fltrd, µg/L (61595) | Cyper- methrin water, fltrd, µg/L (61586) | DCPA, water, fltrd 0.7u GF µg/L (82682) | Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170) | Diazi- non, water, fltrd, µg/L (39572) | Dicro- tophos, water, fltrd, µg/L (38454) |
|--------------|---|--|--|---|--|--|---|---|--|--|---|---|--|
| Jul 21... | <.020 | <.06 | <.005 | <.010 | <.006 | <.020 | <.016 | <.004 | <.014 | <.003 | <.012 | <.005 | <.08 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Diel- drin, water, fltrd, µg/L (39381) | Dimeth- oate, water, fltrd 0.7u GF µg/L (82662) | Disulf- oton sulfone water, fltrd, µg/L (61640) | Disul- foton, water, fltrd 0.7u GF µg/L (82677) | Endo- sulfan sulfate water, fltrd, µg/L (61590) | EPTC, water, fltrd 0.7u GF µg/L (82668) | Ethion monoxon water, fltrd, µg/L (61644) | Ethio- prop, water, fltrd, 0.7u GF µg/L (82346) | Etho- prop, water, fltrd 0.7u GF µg/L (82672) | Fenami- phos sulfone water, fltrd, µg/L (61645) | Fenami- phos oxide, water, fltrd, µg/L (61646) | Fenami- phos, water, fltrd, µg/L (61591) | Desulf- inyl- fipro- nil amide, wat flt µg/L (62169) |
|--------------|---|---|---|---|---|--|--|---|---|---|--|---|---|
| Jul 21... | <.009 | <.006 | <.01 | <.04 | <.022 | <.002 | <.02 | <.006 | <.012 | <.053 | <.20 | <.03 | <.029 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Fipro- nil sulfide water, fltrd, µg/L (62167) | Fipro- nil sulfone water, fltrd, µg/L (62168) | Fipro- nil, water, fltrd, µg/L (62166) | Fonofos water, fltrd, µg/L (04095) | Hexa- zinone, water, fltrd, µg/L (04025) | Ipro- dione, water, fltrd, µg/L (61593) | Isofen- phos, water, fltrd, µg/L (61594) | Mala- oxon, water, fltrd, µg/L (61652) | Mala- thion, water, fltrd, µg/L (39532) | Meta- laxyl, water, fltrd, µg/L (61596) | Methid- athion, water, fltrd, µg/L (61598) | Methyl para- oxon, water, fltrd, µg/L (61664) | Methyl para- thion, water, fltrd 0.7u GF µg/L (82667) |
|--------------|---|---|---|--|---|--|---|---|--|--|---|---|--|
| Jul 21... | <.013 | <.024 | <.020 | <.010 | <.008 | <.01 | <.006 | <.020 | <.016 | <.007 | <.004 | <.01 | <.008 |

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Metolachlor, water, fltrd, µg/L (39415) | Metribuzin, water, fltrd, µg/L (82630) | Molinate, water, fltrd, 0.7u GF µg/L (82671) | Myclobutanil, water, fltrd, µg/L (61599) | Oxyfluorfen, water, fltrd, µg/L (61600) | Pendimethalin, water, fltrd, 0.7u GF µg/L (82683) | Phorate oxon, water, fltrd, µg/L (61666) | Phorate, water, fltrd, 0.7u GF µg/L (82664) | Phosmet oxon, water, fltrd, µg/L (61668) | Phosmet, water, fltrd, µg/L (61601) | Prometon, water, fltrd, µg/L (04037) | Prometryn, water, fltrd, µg/L (04036) | Propyzamide, water, fltrd, 0.7u GF µg/L (82676) |
|-----------|---|--|--|--|---|---|--|---|--|-------------------------------------|--------------------------------------|---------------------------------------|---|
| Jul 21... | <.010 | <.012 | <.003 | <.010 | <.006 | <.012 | <.03 | <.040 | <.05 | <.008 | <.01 | <.006 | <.004 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Propanil, water, fltrd, 0.7u GF µg/L (82679) | Propargite, water, fltrd, 0.7u GF µg/L (82685) | Simazine, water, fltrd, µg/L (04035) | Tebu-thiuron, water, fltrd, 0.7u GF µg/L (82670) | Tefluthrin, water, fltrd, µg/L (61606) | Terbufos, water, fltrd, µg/L (61674) | Terbufos, water, fltrd, 0.7u GF µg/L (82675) | Terbutylazine, water, fltrd, µg/L (04022) | Thiobencarb, water, fltrd, 0.7u GF µg/L (82681) | trans-Propiconazole, water, fltrd, µg/L (79847) | Tribuphos, water, fltrd, µg/L (61610) | Tri-fluralin, water, fltrd, 0.7u GF µg/L (82661) | 1,1,1-Trichloroethane, water, unfltrd, µg/L (34506) |
|-----------|--|--|--------------------------------------|--|--|--------------------------------------|--|---|---|---|---------------------------------------|--|---|
| Jul 21... | <.006 | <.04 | <.006 | <.02 | <.003 | <.04 | <.02 | <.01 | <.010 | <.02 | <.035 | <.009 | <.1 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 11 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | CFC-113, water, unfltrd, µg/L (77652) | 1,1-Dichloroethane, water, unfltrd, µg/L (34496) | 1,1-Dichloroethene, water, unfltrd, µg/L (34501) | 1,2-Dichlorobenzene, water, unfltrd, µg/L (34536) | 1,2-Dichloroethane, water, unfltrd, µg/L (32103) | 1,2-Dichloropropane, water, unfltrd, µg/L (34541) | 1,3-Dichlorobenzene, water, unfltrd, µg/L (34566) | 1,4-Dichlorobenzene, water, unfltrd, µg/L (34571) | Benzene, water, unfltrd, µg/L (34030) | Bromo-dichloromethane, water, unfltrd, µg/L (32101) | Tri-bromomethane, water, unfltrd, µg/L (32104) | Chlorobenzene, water, unfltrd, µg/L (34301) | cis-1,2-Dichloroethene, water, unfltrd, µg/L (77093) |
|-----------|---------------------------------------|--|--|---|--|---|---|---|---------------------------------------|---|--|---|--|
| Jul 21... | <.1 | <.1 | <.1 | <.1 | <.2 | <.1 | <.1 | <.1 | <.1 | <.1 | <.2 | <.1 | <.1 |

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 12 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Di-bromo-chloro-methane water, unfltrd µg/L (32105) | Di-chloro-di-fluoro-methane wat unf µg/L (34668) | Di-chloro-methane water, unfltrd µg/L (34423) | Di-ethyl ether, water, unfltrd µg/L (81576) | Diiso-propyl ether, water, unfltrd µg/L (81577) | Ethyl-benzene water, unfltrd µg/L (34371) | Methyl-tert-pentyl ether, water, unfltrd µg/L (50005) | meta-+ para-Xylene, water, unfltrd µg/L (85795) | o-Xylene, water, unfltrd µg/L (77135) | Styrene water, unfltrd µg/L (77128) | t-Butyl ethyl ether, water, unfltrd µg/L (50004) | Methyl t-butyl ether, water, unfltrd µg/L (78032) | Tetra-chloro-ethene, water, unfltrd µg/L (34475) |
|-----------|---|--|---|---|---|---|---|---|---|---|--|---|--|
| Jul 21... | <.2 | <.2 | <.2 | <.2 | <.2 | <.1 | <.2 | <.2 | <.1 | <.1 | <.1 | <.2 | <.1 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 13 of 13

[Remark codes: <, less than; E, estimated; R, radchem non-detect, below ssLc.]

| Date | Tetra-chloro-methane water, unfltrd µg/L (32102) | Toluene water, unfltrd µg/L (34010) | trans-1,2-Di-chloro-ethene, water, unfltrd µg/L (34546) | Tri-chloro-ethene, water, unfltrd µg/L (39180) | Tri-chloro-fluoro-methane water, unfltrd µg/L (34488) | Tri-chloro-methane water, unfltrd µg/L (32106) | Vinyl chloride, water, unfltrd µg/L (39175) | Di-chloro- vos, water, fltrd, µg/L (38775) | Alpha radioac 30 day, wat flt Th-230, pCi/L (62639) | Alpha radioac 72 hr, wat flt Th-230, pCi/L (62636) | Beta radioac 30 day, wat flt Cs-137, pCi/L (62645) | Beta radioac 72 hr, wat flt Cs-137, pCi/L (62642) |
|-----------|--|---|---|--|---|--|---|--|---|--|--|---|
| Jul 21... | <.2 | <.1 | <.1 | <.1 | <.2 | .3 | <.2 | <.01 | 3.3 | 3.4 | R1.3 | 1.8 |